



DATE MAILED: 11/30/2004

W

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/623,954 09/10/2001		9/10/2001	Tudor N. Buican	1074-038	2037	
21034	7590	11/30/2004		EXAMINER		
IPSOLON L	LP		HANIG, RICHARD E			
805 SW BRO	ADWAY	, #2740				
PORTLAND	OR 972	205	ART UNIT	PAPER NUMBER		
	, -			2873		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	pplicant(s)					
	•	09/623,954	Ĭ	BUICAN, TUDOR N.					
	Office Action Summary	Examiner		· Art Unit					
		Richard Har	nig	2873					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, ly within the statuto will apply and will e e, cause the applica	however, may a reply be tim ry minimum of thirty (30) days xpire SIX (6) MONTHS from the	nely filed  s will be considered timely the mailing date of this co	y. ommunication.				
Status			•						
1)	Responsive to communication(s) filed on								
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5)⊠ 6)⊠ 7)⊠ 8)□	Claim(s) 1-15 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 1-6,14 and 15 is/are allowed.  Claim(s) 7-9,12 and 13 is/are rejected.  Claim(s) 10 and 11 is/are objected to.  Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 10 September 2001 is/Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	/are: a)⊠ acc e drawing(s) be ction is required	held in abeyance. See if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 Cl	FR 1.121(d).				
Priority ι	ınder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 tr No(s)/Mail Date	3) 5	Interview Summary Paper No(s)/Mail Da  Notice of Informal P  Other:		O-152)				

Application/Control Number: 09/623,954 Page 2

Art Unit: 2873

## **DETAILED ACTION**

- 1. If applicant desires priority under 35 U.S.C. 119(e) based upon a previously filed application, specific reference to the earlier filed application must be made in the instant application. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications. This should appear as the first sentence of the specification following the title, preferably as a separate paragraph unless it appears in an application data sheet.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7-9, 12, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Munechika et al (4865450). For claim 7, Munechika et al, in col. 3, lines 33-46 describe the use of the Hinds type photoelastic modulators. They describe using a current feedback line to stabilize the voltage in order to produce the desired oscillation amplitude. They don't specifically say to control the frequency, but in col. 3 line 50, they describe adjusting the voltage to produce a desired optical phase retardation which implies that frequency is being changed. If the frequency is being change it would be an obvious design choice to control the frequency of the drive signal. Controlling the phase between the current and voltage is mentioned in line 46 and it is a design choice how that is done. The voltage is controlled and the phase between the

Application/Control Number: 09/623,954

Art Unit: 2873

voltage and the current are controlled so the frequency and the amplitude is controlled independently.

- 4. Claims 10, 11, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 1-5, 6, 14, 15 are allowed.
- 6. The following is an examiner's statement of reasons for allowance: The system for controlling "n" photoelastic modulators toward having a common resonant frequency or generating error signals for controlling for phase differences in photoelastic modulator is not shown or suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference 5,298,973 in col.5, line 55 discloses has a driving circuit adjust the voltage.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Hanig whose telephone number is 571-272-2329. The examiner can normally be reached on M-F: 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Put 1/24/04

> Scott J. Subarman Primary Examiner